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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTONY			
09/698,596	10/27/2000		ATTORNEY DOCKET NO.	CONFIRMATION NO.		
	10,20,00	Chikako Nakamura	ATTORNEY DOCKET NO. CONFIRMATION 1788_077 6381 EXAMINER MCKANE, ELIZABETH L ART UNIT PAPER NUMBER 1744	6381		
25191 75	90 05/07/2003					
BURR & BRO						
PO BOX 7068		EXAMINER				
SYRACUSE, N	Y 13261-7068	·		MOE AND DIVINIO		
		MCKANE, ELIZABETH L		IZABETH L		
			ART UNIT	O a man a grant and an		
				PAPER NUMBER		
			1744			
	DATE MAILED: 05/07/2003					

Please find below and/or attached an Office communication concerning this application or proceeding.

	Apr	olication No.	Applicant(s)	_Alc
		698,596	NAKAMURA ET AL.	1
Office Action Summary		miner	Art Unit	
		ih McKane	1744	
Th MAILING DATE of this commu		<u> </u>		
Period for Reply				
A SHORTENED STATUTORY PERIOD THE MAILING DATE OF THIS COMMU! - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this cortain of the period for reply specified above is less than thirty. - If NO period for reply is specified above, the maximum. - Failure to reply within the set or extended period for reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b). Status	NICATION. ons of 37 CFR 1.136(a). Immunication. (30) days, a reply within statutory period will apply will, by statute, cause after the mailing date of	n no event, however, may a the statutory minimum of thi y and will expire SIX (6) MOI the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	cation.
1) Responsive to communication(s)	filed on .			
2a) This action is FINAL.		ion is non-final.		
3) Since this application is in condition closed in accordance with the practice of Claims	on for allowance	except for formal ma	itters, prosecution as to the mei D. 11, 453 O.G. 213.	rits is
4)⊠ Claim(s) <u>1-19</u> is/are pending in the	e application			
4a) Of the above claim(s) is/		om consideration		
5)⊠ Claim(s) <u>1-12</u> is/are allowed.	are withdrawn ne	on consideration.		
6)⊠ Claim(s) <u>13 and 15-19</u> is/are reject	ted			
7)⊠ Claim(s) <u>14</u> is/are objected to.	iou.			
8) Claim(s) are subject to restr	riction and/or elec	tion requirement		
Application Papers				
9)☐ The specification is objected to by t	he Examiner.			
10) The drawing(s) filed on is/are	e: a) <u>□</u> accepted o	r b) objected to by t	the Examiner.	
Applicant may not request that any o	bjection to the draw	ving(s) be held in abey	ance. See 37 CFR 1.85(a).	
11)☐ The proposed drawing correction file	ed on is: a)□ approved b)□ d	lisapproved by the Examiner.	
If approved, corrected drawings are r	required in reply to t	his Office action.		
12)☐ The oath or declaration is objected t	to by the Examine	er.		
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a clair	m for foreign prior	ity under 35 U.S.C.	§ 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:				•
1. Certified copies of the priority	y documents have	e been received.		
2. Certified copies of the priority	y documents have	e been received in A	pplication No	
 Copies of the certified copies application from the Inter See the attached detailed Office action 	rnational Bureau (PCT Rule 17.2(a)).	received in this National Stage received.	
14)☐ Acknowledgment is made of a claim				cation).
a) The translation of the foreign la	anguage provisior	al application has b	een received.	
15) Acknowledgment is made of a claim Attachment(s)	ror domestic prio	nty under 35 U.S.C.	§§ 120 and/or 121.	
1) Notice of References Cited (PTO-892)		∆ □ 1 ·	0	
2) Notice of References Cited (P10-892) Notice of Draftsperson's Patent Drawing Review (Notice of Draftsperson's Patent Drawing Review (Notice of Draftsperson's Patent (S) (PTO-1449) (Notice of References Cited (P10-892)	(PTO-948) Paper No(s) <u>4</u> .		Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152) .	
S. Patent and Trademark Office TO-326 (Rev. 04-01)	Office Action Su	ımmarv	Part of Paper No. 5	<u> </u>

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 13 is rejected under 35 U.S.C. 102(b) as being anticipated by Seiko (JP 11-302413).

Seiko teaches a solution for cleaning contacts containing TiO₂ particles dispersed in water.

- 3. Claim 13 is rejected under 35 U.S.C. 102(b) as being anticipated by Asaki (JP 5-295391).

 Asahi teaches a cleaning solution for contact lens wherein the aqueous solution contains titania particles.
- 4. Claims 13 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Ellis et al (U.S. Patent No. 4,394,179).

Ellis et al discloses cleaning solutions for contact lenses containing a titanium dioxide abrasive. See Example XXI. The solutions also contain sodium chloride. See Example I.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Seiko (JP 11-302413).

Although Seiko does not teach a concentration of titanium dioxide to employ, the titanium dioxide is used as a photocatalyst for bacterial effect. Thus, it would have been obvious that upon optimizing the concentration, the amount would have been in the range of 1-100 ppm.

9. Claims 17 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Seiko, Asahi or Ellis et al, all in view of Koller (U.S. Patent No. 4,631,072).

All of Seiko, Asahi and Ellis et al teach compositions for cleaning contact lenses.

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Moreover, Ellis et al discloses using the cleaning compositions along with an anti-microbial compound. See col.4, lines 30-38. None teach the use of hydrogen peroxide.

Koller teaches an abrasive cleaning composition for contact lenses that may also contain hydrogen peroxide. See col.3, lines 18-30. As it is well-known in the art to combine the steps of cleaning and sterilizing, it would have been obvious to add hydrogen peroxide to the solutions of Seiko, Asahi and Ellis et al.

10. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Seiko, Asahi, Ellis et al, and Koller as applied to claim 17 above, and further in view of Park et al (U.S. Patent No. 5,840,250).

The combination *supra* is silent with respect to inclusion of a metal ion in the composition. Park et al, however, evidences that it was known in the art to add a metal ion, such as copper, to a contact lens treating solution where hydrogen peroxide is present in order to provide an indication of peroxide presence/absence in the solution. As Park et al teaches that such an indication is necessary in order to prevent damage to a users eyes, it would have been obvious in the combination of Seiko, Asahi or Ellis et al, all with Koller.

Allowable Subject Matter

- 11. Claim 14 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 12. The following is a statement of reasons for the indication of allowable subject matter:

 None of the prior art of record teach or suggest the particle size claimed.

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- 13. Claims 1-12 are allowed.
- The following is a statement of reasons for allowance: The closet prior art with respect to the method of disinfecting a contact lens is Seiko (JP 11-302413), who teaches contacting a contact lens with an aqueous solution of titania particles while exposing the lens and particles to UV radiation. The photocatalytic effect of particles simultaneously disinfects and cleans the lenses. However, Seiko does not teach or suggest immersing the lenses in the solution. In fact, doing so would effectively destroy the invention of Seiko, who uses impingement of the liquid and particles to abrade/clean the surface of the lens. In essence, impingement of the surface is necessary in the invention of Seiko and impingement could not occur were the lens immersed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leigh McKane whose telephone number is 703-305-3387. The examiner can normally be reached on Monday-Wednesday (7:15 am-4:45 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Warden can be reached on 703-308-2920. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Leigh McKane

Primary Examiner

Art Unit 1744

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May 5, 2003